

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) An apparatus that controls a hot water wash cycle in a washing machine, the apparatus comprising:

a water supply that supplies water to a washing machine based on an input control signal;

a heater that heats water in the washing machine up to a predetermined temperature based on the input control signal;

a sensor that senses a water level in the washing machine and a temperature of the water; and

a controller that controls the water supply and the heater based on a sensing signal generated by the sensor, ~~wherein the controller turns the heater on when the sensor senses that the heater is submerged~~ wherein a water level at which the heater is completely submerged is a heating water level, and a desired fill level for the washing machine is a washing water level such that the washing water level is greater than the heating water level, wherein the controller turns the heater on as soon as the sensor senses that the water level in the washing machine is at the heating water level at which the heater is completely submerged, and wherein the water supply continues to supply water to the washing machine after the heater is turned on.

2. (Cancelled)

3. (Currently Amended) The apparatus as claimed in claim ~~2~~1, wherein the heating water level is approximately 20~30% of the washing water level.

4. (Original) The apparatus as claimed in claim 1, wherein the washing machine is a drum type washing machine.

5-17. (Cancelled)

18. (Currently Amended) The apparatus as claimed in claim ~~2~~1, wherein the heater heats water accumulated in the washing machine as the water supply continues to fill the washing machine with water to the washing water level.

19. (Previously Presented) The apparatus as claimed in claim 18, wherein the controller turns the water supply off when the sensor senses that the water level in the washing machine reaches the washing water level.

20. (Previously Presented) The apparatus as claimed in claim 18, wherein the heater continues to operate for a predetermined amount of time, after the water level reaches the washing water level and the water supply is turned off, to heat the water to the predetermined temperature.

21. (Previously Presented) The apparatus as claimed in claim 20, wherein the controller turns the heater off when the sensor senses that the water has reached the predetermined temperature.

22-28. (Cancelled)